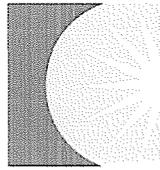


RECEIVED

MAR 29 2013

PUBLIC SERVICE
COMMISSION



CLARK ENERGY

A Touchstone Energy Cooperative 

COMMONWEALTH OF KENTUCKY BEFORE THE
PUBLIC SERVICE COMMISSION

In the Matter of:

AN INVESTIGATION OF THE
RELIABILITY MEASURES OF
KENTUCKY'S JURISDICTIONAL
ELECTRIC DISTRIBUTION UTILITIES

)
)
)
)

ADMINISTRATIVE
CASE NO. 2006-00494 ✓

Electric Distribution Utility Annual Reliability
Report for 2012

Reported by: Clark Energy Cooperative, Winchester, Kentucky

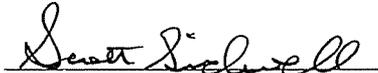
CERTIFICATE OF PREPARATION

STATE OF KENTUCKY)

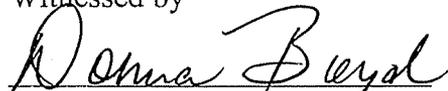
COUNTY OF CLARK)

This letter is to certify that I, Scott Sidwell, Sr. V.P. of Engineering & Operations for Clark Energy Cooperative in Winchester, Kentucky, completed this report and do attest the information contained within this response is true, accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.

This 29th day of March, 2013


Scott Sidwell

Witnessed by


Notary Public, KY State at Large

My Commission Expires 11-14-13

Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

| | | |
|----------------------------|-----|--|
| UTILITY NAME | 1.1 | Clark Energy Cooperative |
| REPORT PREPARED BY | 1.2 | Scott Sidwell |
| E-MAIL ADDRESS OF PREPARER | 1.3 | ssidwell@clarkenergy.com |
| PHONE NUMBER OF PREPARER | 1.4 | 859-901-9229 |

SECTION 2: REPORT YEAR

| | | |
|-------------------------|-----|------|
| CALENDAR YEAR OF REPORT | 2.1 | 2012 |
|-------------------------|-----|------|

SECTION 3: MAJOR EVENT DAYS

| | | | |
|-----------------------------------|------|-----|------------|
| | TMED | 3.1 | 11.01 |
| FIRST DATE USED TO DETERMINE TMED | 3.2 | | 1/1/2007 |
| LAST DATE USED TO DETERMINE TMED | 3.3 | | 12/31/2011 |
| NUMBER OF MED IN REPORT YEAR | 3.4 | | 5 |

NOTE: Per IEEE 1366 TMED should be calculated using the daily SAIDI values for the five prior years. If five years of data are not

SECTION 4: SYSTEM RELIABILITY RESULTS

Excluding MED

| | | |
|-------|--|-------|
| SAIDI | | 151 |
| SAIFI | | 2.010 |
| CAIDI | | 75 |

Including MED (Optional)

| | | |
|-------|--|-------|
| SAIDI | | _____ |
| SAIFI | | _____ |
| CAIDI | | _____ |

Notes:

- 1) All duration indices (SAIDI, CAIDI) are to be reported in units of minutes.
 - 2) Reports are due on the first business day of April of each year
 - 3) Reports cover the calendar year ending in the December before the reports are due.
 - 4) IEEE 1366 (latest version) is used to define SAIDI, SAIFI, CAIDI, and TMED
-

Electric Distribution Utility Annual Reliability Report

SECTION 5: OUTAGE CAUSE CATEGORIES

Excluding MED

| CAUSE CODE | SAIDI VALUE | | CAUSE CODE | SAIFI VALUE |
|------------------------|--------------|--|---------------------------|--------------|
| Trees with Ice/Snow | 5.1.1 2.683 | | Lightning | 5.2.1 0.017 |
| Trees without Ice/Snow | 5.1.2 1.333 | | Trees with Ice/Snow | 5.2.2 0.011 |
| Weather/Other | 5.1.3 1.268 | | Tree Failure W/O Ice/Snow | 5.2.3 0.007 |
| Maintanance/Other | 5.1.4 1.063 | | Weather/Other | 5.2.4 0.007 |
| Lightning | 5.1.5 0.493 | | Unknown | 5.2.5 0.005 |
| Wind/Not Trees | 5.1.6 0.253 | | Construction | 5.2.6 0.003 |
| Decay/Age of Mat. | 5.1.7 0.213 | | Small animals/birds | 5.2.7 0.003 |
| Power Supply | 5.1.8 0.151 | | Tree growth | 5.2.8 0.003 |
| Insulator | 5.1.9 0.126 | | Decay/Age/Mat. Or Equip | 5.2.9 0.002 |
| Fused Cutout | 5.1.10 0.124 | | Maintenance/other | 5.2.10 0.002 |

SECTION 6: WORST PERFORMING CIRCUITS

| CIRCUIT IDENTIFIER | | SAIDI | VALUE | MAJOR OUTAGE CATEGORY |
|--------------------|--------|-------|-------|-----------------------|
| FRNBURG4 | 6.1.1 | | 747.7 | Maintenance |
| SIDEVIEW1 | 6.1.2 | | 539.6 | Maintenance |
| BLEVAL3 | 6.1.3 | | 413.3 | Maintenance |
| UNIONCITY2 | 6.1.4 | | 330.7 | Maintenance |
| MARIBA2 | 6.1.5 | | 293.1 | Weather |
| CAVERUN1 | 6.1.6 | | 290.1 | Maintenance |
| MARIBA3 | 6.1.7 | | 241.9 | Weather |
| SIDEVIEW2 | 6.1.8 | | 239.0 | Maintenance |
| MARIBA1 | 6.1.9 | | 199.9 | Maintenance |
| CLAYCTY4 | 6.1.10 | | 197.8 | Weather |

| CIRCUIT IDENTIFIER | | SAIFI | VALUE | MAJOR OUTAGE CATEGORY |
|--------------------|--------|-------|--------|-----------------------|
| FRNBURG4 | 6.2.1 | | 6.6724 | Maintenance |
| UNIONCITY2 | 6.2.2 | | 5.2054 | Weather |
| MARIBA1 | 6.2.3 | | 4.6991 | Maintenance |
| SIDEVIEW1 | 6.2.4 | | 4.6427 | Maintenance |
| MARIBA2 | 6.2.5 | | 3.6372 | Weather |
| BLEVAL3 | 6.2.6 | | 2.7981 | Maintenance |
| HINKSTON3 | 6.2.7 | | 2.1946 | Weather |
| HUNT4 | 6.2.8 | | 2.1425 | Weather |
| FRNBURG3 | 6.2.9 | | 2.1341 | Maintenance |
| MARIBA3 | 6.2.10 | | 1.9516 | Weather |

Electric Distribution Utility Annual Reliability Report

Additional pages may be attached as necessary

SECTION 7: VEGETATION MANAGEMENT PLAN REVIEW

Clark Energy continues to expand our Right-of-Way program with a budget increase each year for the last four years. We are in the fourth year of our seven year program to clear all the substation circuits on our system using a systematic approach of circuit bidding with multiple contractors.

Our 2013 bid included clearing 400 miles of overhead lines in Clark, Montgomery and Menifee Counties. Approximately 150 miles of overhead lines that were cleared in the last 2 years were bid out for herbicide spray in 2013.

One section of remotely located primary line running through the Daniel Boone National Forest around Cave Run Lake is slated to be trimmed in 2013 using a helicopter fitted with a large motorized trim saw designed to do side trimming. The lack of access to this area makes it a perfect fit for this procedure.

SECTION 8: UTILITY COMMENTS

Some of the things Clark Energy is working on to improve service in 2013 includes:

1. Identifying locations of porcelain fused cutouts that have begun to fail and begin a replacement program
 2. Convening a reliability committee to discuss ways of improving reliability
 3. Changing conductors in problem areas that are experiencing outages due to old or frayed conductor
 4. Completing a substation and feeder circuits on one of our repetitive 10 worst circuits that was subjected to excessive exposure due to feeder length.
 5. Reviewing our sectionalizing scheme to include the use of electronic sectionalizing cutouts barrels in two or three shot designs that should reduce nuisance trips related to weather while preserving the overall design of the electrical system.
 6. Completion of our SCADA system. Currently only ½ of our substations have SCADA and this should help improve reliability.
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